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Aug 23, 1994

DERWENT-ACC-NO: 1994-308067

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TITLE: Solid fixing agent for treating black and white silver halide photographic material - in powder, granular, tablet, sheet or paste form, contg. at least one aluminium chlorate and/or nitrate and preventing scum formation

PRIORITY-DATA: 1993JP-0022856 (February 10, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06236001 A	August 23, 1994		011	G03C005/00

INT-CL (IPC): G03C 5/38

ABSTRACTED-PUB-NO: JP 06236001A

BASIC-ABSTRACT:

Fixing agent contains at least one kind of aluminium chlorate and/or aluminium nitrate and constitutes a kit of a solid form treating agent.

The solid fixing agent is in a powdery, granular, tablet, sheet or paste form.

USE/ADVANTAGE - Used to treat black and white photographic material with an automatic developing machine. The fixing agent has good solubility and prevents scum formation in a washing tank.

In an example, a mixt. of 100 g. sodium thiosulphate, 8 g. anhydrous sodium sulphite, 2 g. sodium citrate, 2 g. sodium oxalate, 5 g. boric acid, 0.5 g. EDTA disodium and 5 wt.% of gelatin was granulated in a grain size of 2.5 mm. The obtd. granules were sprayed with an aq. 10% polyvinyl alcohol soln. A mixt. of 5 g. tartaric acid and 0.20 mol/l.  $\text{Al}(\text{ClO}_3)_3 \cdot 9\text{H}_2\text{O}$ , 0.05 mol/l.  $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$  and 5% gelatin was granulated to granules having a grain size of 1.5 mm. The granules were sprayed with an aq. 10% polyvinyl alcohol soln. to obtain granules. These two kinds of granules were packaged under vacuum to obtain a solid fixing agent.